

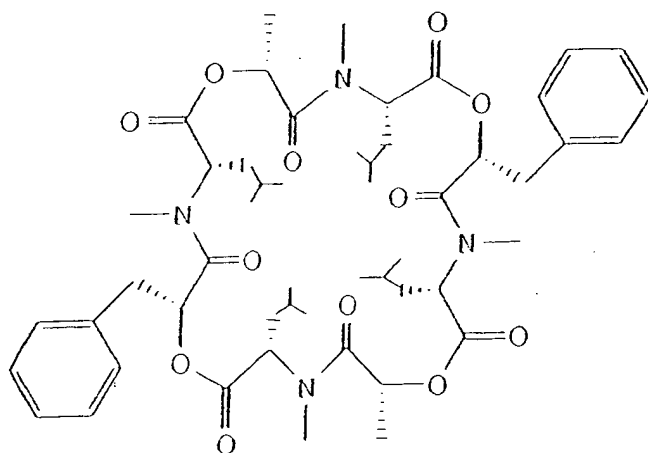
**AMENDMENTS TO THE CLAIMS**

**1. (Currently amended)** A transformant of a microorganism producing a peptide or a depsipeptide, wherein the transformant is produced by transforming the microorganism by introducing (i) a polynucleotide encoding the amino acid sequence of SEQ ID NO: 2 ~~or a modified sequence of SEQ ID NO: 2 having 4-amino-4-deoxychorismic acid synthase activity,~~ (ii) a polynucleotide encoding the amino acid sequence of SEQ ID NO: 4 ~~or a modified sequence of SEQ ID NO: 4 having 4-amino-4-deoxychorismic acid mutase activity,~~ and (iii) a polynucleotide encoding the amino acid sequence of SEQ ID NO: 6 ~~or a modified sequence of SEQ ID NO: 6 having 4-amino-4-deoxyphenic acid dehydrogenase activity,~~ so that the transformant produces a peptide or a depsipeptide having a benzene ring skeleton substituted at the para-position with a nitro group or amino group, ~~and wherein the modified sequences have one to several modifications selected from the group consisting of a substitution, a deletion, an insertion, and an addition.~~

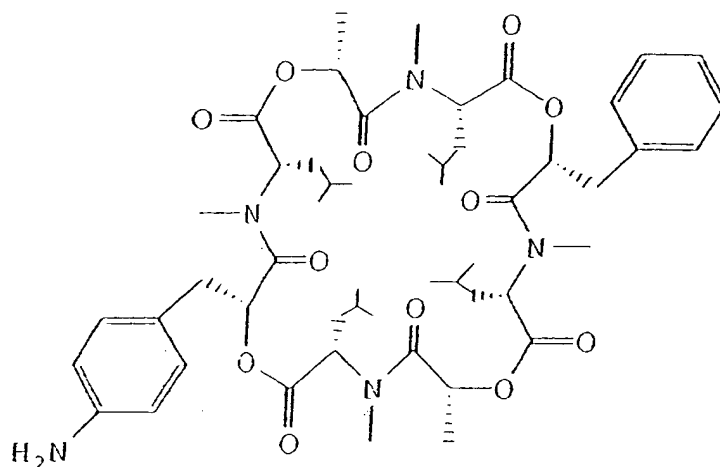
**2-4. (Cancelled)**

**5. (Currently amended)** The transformant according to claim 1, wherein the peptide or the depsipeptide is synthesized from at least one ~~amino acid~~ molecule selected from the group consisting of phenylalanine, tyrosine, and phenyllactic acid.

**6. (Previously presented)** The transformant according to claim 1, wherein the microorganism to be transformed produces a substance PF1022 ([cyclo (D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl-D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl)]), represented by the following formula:



**7. (Previously presented)** The transformant according to claim 1, wherein the transformant produces a substance PF1022 derivative represented by the following formula:



**8-16. (Cancelled)**

**17. (Previously presented)** The transformant according to claim 1, wherein the microorganism is transformed by introducing polynucleotides comprising: (i) the DNA sequence of SEQ ID NO: 1, (ii) the DNA sequence of SEQ ID NO: 3, and (iii) the DNA sequence of SEQ ID NO: 5 into the microorganism.

**18. (Cancelled)**

**19. (Previously presented)** The transformant according to claim 1, wherein the microorganism to be transformed is Mycelia sterilia.

**20. (Previously presented)** The transformant according to claim 19, wherein Mycelia  
sterilia is strain PF1022 deposited with the National Institute of Bioscience and  
Human-Technology under an accession number of FERM BP-2671.

**21. (Previously presented)** The transformant according to claim 1, wherein the  
transformant is strain 55-65 deposited with the National Institute of Bioscience and  
Human-Technology under an accession number of FERM BP-7255.

**22. (Cancelled)**

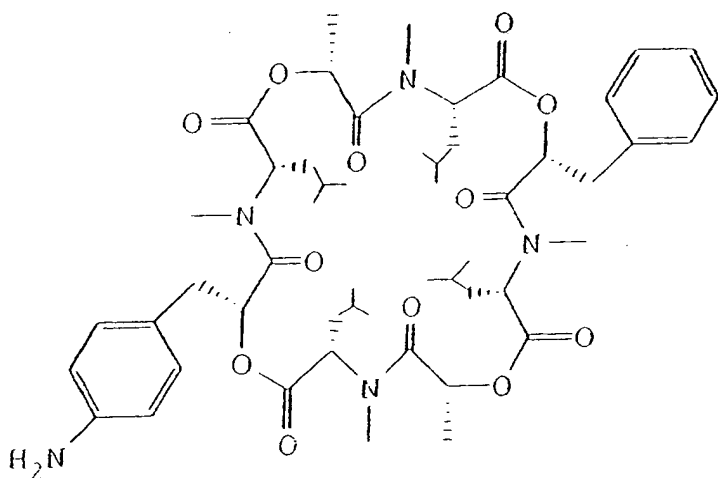
**23. (Withdrawn-Currently amended)** A method for producing a peptide or a  
depsipeptide having a benzene ring skeleton substituted at the para-position with a a nitro group  
or amino group, which comprises the steps of  
culturing the transformant of claim 1 under conditions suitable for production of the  
peptide or the depsipeptide, and  
collecting the the peptide or the depsipeptide.

**24. (Cancelled)**

**25. (Withdrawn)** A method for producing a substance PF1022 derivative, which comprises the steps of

culturing the transformant of claim 6 under conditions suitable for production of the substance PF1022 derivative, and

collecting the substance PF1022 derivative of the following formula:



**26. (Currently amended)** An isolated polynucleotide encoding the amino acid sequence of SEQ ID NO: 2 ~~or a modified sequence of SEQ ID NO: 2 having 4-amino-4-deoxychorismic acid synthase activity.~~

**27. (Original)** The polynucleotide according to claim 26, which comprises the DNA sequence of SEQ ID NO: 1.

**28. (Currently amended)** An isolated polynucleotide encoding the amino acid sequence of SEQ ID NO: 4 ~~or a modified sequence of SEQ ID NO: 4 having 4-amino-4-deoxychorismic acid mutase activity.~~

**29. (Previously presented)** The polynucleotide according to claim 28, which comprises the DNA sequence of SEQ ID NO: 3.

**30. (Currently amended)** An isolated polynucleotide encoding the amino acid sequence of SEQ ID NO: 6 ~~or a modified sequence of SEQ ID NO: 6 having 4-amino-4-deoxyprephenic acid dehydrogenase activity.~~

**31. (Previously presented)** The polynucleotide according to claim 30, which comprises the DNA sequence of SEQ ID NO: 5.

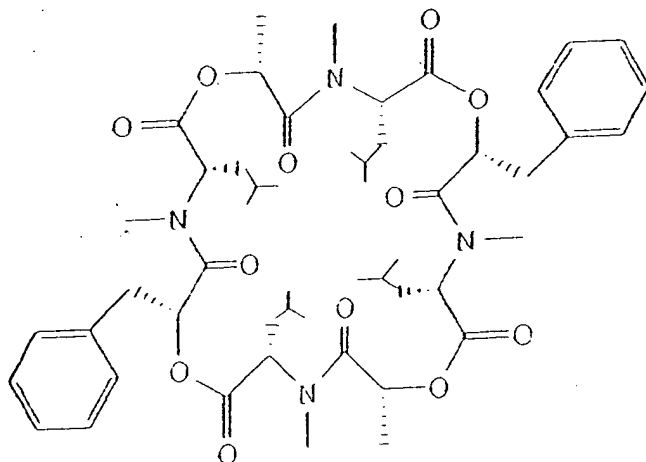
**32. (Previously presented)** The transformant according to claim 6, wherein substance PF1022 is synthesized by a substance PF1022-synthesizing enzyme from four molecules of L-leucine, two molecules of D-lactic acid and two molecules of D-phenyllactic acid.

**33. (Currently amended)** A transformant of Mycelia sterilia, wherein the transformant is produced by transforming the Mycelia sterilia by introducing (i) a polynucleotide encoding the amino acid sequence of SEQ ID NO: 2 ~~or a modified sequence of SEQ ID NO: 2 having 4-amino-4-deoxychorismic acid synthase activity,~~ (ii) a polynucleotide encoding the amino acid sequence of SEQ ID NO: 4 ~~or a modified sequence of SEQ ID NO: 4 having 4-amino-4-deoxychorismic acid mutase activity,~~ and (iii) a polynucleotide encoding the amino acid sequence of SEQ ID NO: 6 ~~or a modified sequence of SEQ ID NO: 6 having 4-amino-4-deoxyprephenic acid dehydrogenase activity,~~ and wherein the modified sequences

~~have one to several modifications selected from the group consisting of a substitution, a deletion, an insertion, and an addition.~~

**34. (Previously presented)** The transformant according to claim 33, wherein Mycelia sterilia is transformed by introducing polynucleotides comprising (i) the DNA sequence of SEQ ID NO: 1, (ii) the DNA sequence of SEQ ID NO: 3, and (iii) the DNA sequence of SEQ ID NO: 5 into the Mycelia sterilia.

**35. (Previously presented)** The transformant according to claim 33, wherein the Mycelia sterilia to be transformed produces a substance PF1022 ([cyclo (D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl-D-lactyl-L-N-methylleucyl-D-3-phenyllactyl-L-N-methylleucyl)]), represented by the following formula:



**36. (Previously presented)** The transformant according to claim 35, wherein substance PF1022 is synthesized by a substance PF1022-synthesizing enzyme from four molecules of L-leucine, two molecules of D-lactic acid and two molecules of D-phenyllactic acid.

**37. (Previously presented)** The transformant according to claim 33, wherein the transformant produces a substance PF1022 derivative represented by the following formula:

